



SHEET 1 OF 2

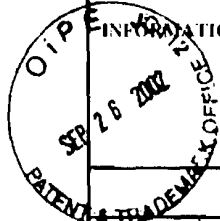
FORM PTO - 1449				ATTORNEY DOCKET NO.: RIB-005					
SUPPLEMENTAL INFORMATION				APPLICANTS: Steitz <i>et al.</i>					
DISCLOSURE STATEMENT				SERIAL NO.: 10/072,634					
				FILING DATE: February 8, 2002					
				GROUP: 2682 1631					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
CSM	A4	US-2002-0086308 A1	07/04/02	Steitz <i>et al.</i>	702	19	08/03/01		
	A5	5,693,791	12/02/97	Truett	540	222	04/11/95		
	A6	5,866,549	02/02/99	Or <i>et al.</i>	574	29	07/03/97		
	A7	5,336,768	08/09/94	Albrecht <i>et al.</i>	540	222	05/24/88		
	A8	5,281,703	01/25/94	White <i>et al.</i>	540	302	05/07/93		
	A9	5,180,719	01/19/93	White <i>et al.</i>	574	190	04/29/91		
	A10	6,468,979 B1	10/22/02	Pellacini <i>et al.</i>	574	29	07/27/99		
	A11	6,437,119 B1	08/20/02	Truett	574	215	07/17/00		
	A12	5,905,144	05/18/99	Truett	536	22.1	09/15/97		
	A13	5,466,681	11/14/95	Krivan <i>et al.</i>	574	54	01/12/94		
	A14	6,380,356 B1	04/30/02	Griffin <i>et al.</i>	435	7.1	12/07/99		
✓	A15	6,446,032 B1	09/03/02	Schimmel	703	11	08/14/92		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
CSM	B4	EP 1 186 614 A2	03/13/02	EP	—	—	07/16/01		
	B5	EP 1 188 769 A2	03/20/02	EP	—	—	08/09/01		
	B6	WO 00/32619	06/08/00	WO	—	—	11/24/99		
	B7	WO 95/07271	03/16/95	WO	—	—	08/16/94		
	B8	WO 96/18633	06/20/96	WO	—	—	12/07/95		
✓	B9	WO 97/35195	09/25/97	WO	—	—	03/19/97		
EXAMINER C. M. 18				DATE CONSIDERED February 17, 2004					



SHEET 2 OF 2

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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Place of Publication, Relevant Pages, Date)	
<i>CM</i>	C101	Fourny <i>et al.</i> (1996) "Structure of the A Site of <i>Escherichia coli</i> 16S Ribosomal RNA Complexed with an Aminoglycoside Antibiotic" <i>Science</i> 274(5291):1367-1371
	C102	Hermann <i>et al.</i> (1999) "Docking of Cationic Antibiotics to Negatively Charged Pockets in RNA Folds" <i>J. Med. Chem.</i> 42(7):1250-1261
	C103	Ioannou <i>et al.</i> (1998) "Kinetics of Inhibition of Rabbit Reticulocyte Peptidyltransferase by Anisomycin and Sparsomycin" <i>Molecular Pharmacology</i> 53(6):1089-1096
	C104	Kirillov <i>et al.</i> (1999) "Peptidyl Transferase Antibiotics Perturb the Relative Positioning of the 3'-Terminal Adenosine of P/P'-Site-Bound tRNA and 23S rRNA in the Ribosome" <i>RNA</i> 5(8):1003-1013
	C105	Spickler <i>et al.</i> (1997) "Streptomycin Binds to the Decoding Center of 16 S Ribosomal RNA" <i>J. Mol. Biol.</i> 273(3):586-599
	C106	Wong <i>et al.</i> (1998) "Specificity of Aminoglycoside Antibiotics for the A-Site of the Decoding Region of Ribosomal RNA" <i>Chemistry & Biology</i> 5(7):397-406
	C107	European Search Report for Application No. 02255442.2 dated March 6, 2003
	C108	Hanessian <i>et al.</i> (1984) "Quantamycin": A Computer-Simulated New-Generation Inhibitor of Bacterial Ribosomal Binding" <i>Journal American Chemical Society</i> 106:6114-6115
	C109	Vince <i>et al.</i> (1975) "Chloramphenicol Binding Site with Analogues of Chloramphenicol and Puromycin" <i>Antimicrobial Agents and Chemotherapy</i> 8(4):439-443
	C110	Shuker <i>et al.</i> (1996) "Discovering High-Affinity Ligands for Proteins: SAR by NMR" <i>Science</i> 274(5292):1531-1541
	C111	Hecker <i>et al.</i> (1993) "Application of Hygromycin A Structure Activity Relationships to the Antibiotic A201A" <i>Bioorganic & Medicinal Chemistry Letters</i> 3(2):295-298
	C112	Wang <i>et al.</i> (1997) "Dimeric Aminoglycosides: Design, Synthesis and RNA Binding" <i>Bioorganic & Medicinal Chemistry Letters</i> 7(14):1951-1956
	C113	Holmes <i>et al.</i> (1993) "Novel Dimeric Penicillin Derived Inhibitors of HIV-1 Proteinase: Interaction with the Catalytic Aspartates" <i>Bioorganic & Medicinal Chemistry Letters</i> 3(4):503-508
	C114	Rao <i>et al.</i> (1997) "Tight Binding of a Dimeric Derivative of Vancomycin with Dimeric L-Lys-D-Ala-D-Ala" <i>J. Am. Chem. Soc.</i> 119:10286-10290
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<i>C. M. L. F.</i>	<i>February 17, 2004</i>	

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CSM	B1	EP 1 172 374 A1	01/16/02	EP	—	—	07/13/01		Yes
	B2	WO 99/63937 A3	12/16/99	PCT	—	—	06/08/99		Yes
↓	B3	WO 01/80863 A1	11/01/01	PCT	—	—	04/27/01		Yes
OTHER ART, JOURNAL ARTICLES, ETC.									
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CSM	C1	Agalarov, S., <i>et al.</i> , (2000) "Structure of the S15, S6, S18-rRNA Complex: Assembly of the 30S Ribosome Central Domain," <i>Science</i> Vol. 288, pp. 107-112							
	C2	Agrawal, R., <i>et al.</i> , (1998) "Visualization of Elongation Factor G on the <i>Escherichia coli</i> 70S Ribosome: The Mechanism of Translocation," <i>Proc. Natl. Acad. Sci. USA</i> Vol. 95, pp. 6134-6138							
	C3	Ban, N., <i>et al.</i> , (2000) "The Complete Atomic Structure of the Large Ribosomal Subunit at 2.4 Å Resolution," <i>Science</i> Vol. 289, No. 5481, pp. 821-1096							
	C4	Ban, N., <i>et al.</i> , (1999) "Placement of Protein and RNA Structures into a 5 Å-Resolution Map of the 50S Ribosomal Subunit," <i>Nature</i> Vol. 400, pp. 841-847							
	C5	Ban, N., <i>et al.</i> , (1998) "A 9 Å Resolution X-Ray Crystallographic Map of the Large Ribosomal Subunit," <i>Cell</i> Vol. 93, pp. 1105-1115							
	C6	Baranov, P., <i>et al.</i> , (1998) "The Database of Ribosomal Cross Links (DRC)," <i>Nucleic Acids Research</i> Vol. 26, No. 1, pp. 187-189							
	C7	Brodersen, D., <i>et al.</i> , (2000) "The Structural Basis for the Action of the Antibiotics Tetracycline, Pactamycin, and Hygromycin B on the 30S Ribosomal Subunit," <i>Cell</i> Vol. 103, pp. 1143-1154							
	C8	Brünger, A., <i>et al.</i> , (1998) "Crystallography & NMR System: A New Software Suite for Macromolecular Structure Determination," <i>Acta Cryst.</i> Vol. D54, pp. 905-921							
	C9	Brünger, A., (1997) "Patterson Correlation Searches and Refinement," <i>Methods in Enzymology</i> , Vol. 276, pp. 558-580							
✓	C10	Carter, A., <i>et al.</i> , (2001) "Crystal Structure of an Initiation Factor Bound to the 30S Ribosomal Subunit," <i>Science</i> Vol. 291, pp. 498-501							



FORM PTO - 1449

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OTHER ART, JOURNAL, ARTICLES, ETC.

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C9M	C11	Carter, A., <i>et al.</i> , (2000) "Functional Insights from the Structure of the 30S Ribosomal Subunit and It's Interactions with Antibiotics," <u>Nature</u> Vol. 407, pp. 340-348
	C12	Cate, J., <i>et al.</i> , (1999) "X-Ray Crystal Structures of 70S Ribosome Functional Complexes," <u>Science</u> Vol. 285, No. 5, pp. 2095-2104
	C13	Clemons, W. Jr., <i>et al.</i> , (1999) "Structure of a Bacterial 30S Ribosomal Subunit at 5.5 Å Resolution," <u>Nature</u> Vol. 400, pp. 833-840
	C14	Culver, G., <i>et al.</i> , (1999) "Identification of an RNA-Protein Bridge Spanning the Ribosomal Subunit Interface," <u>Science</u> Vol. 285, pp. 2133-2135
	C15	Dahlberg, A., <i>et al.</i> , (2001) "The Ribosome in Action," <u>Science</u> Vol. 292, pp. 868-869
	C16	Davies, C., <i>et al.</i> , (1998) "Ribosomal Proteins S5 and L6: High-Resolution Crystal Structures and Roles in Protein Synthesis and Antibiotic Resistance," <u>Journal of Molecular Biology</u> , Vol. 279, pp. 873-888
	C17	Di Giambattista, M., <i>et al.</i> , (1990) "Affinity Labeling of the Virginiamycin S ₁ Binding Site on Bacterial Ribosome," <u>Biochemistry</u> Vol. 29, pp. 9203-9211
	C18	Douthwaite, S., <i>et al.</i> , (1995) "Recognition Determinants for Proteins and Antibiotics within 23S rRNA," <u>Biochem. Cell Biol.</u> Vol. 73, pp. 1179-1185
	C19	Douthwaite, S., <i>et al.</i> , (1993) "Erythromycin Binding is Reduced in Ribosomes with Conformational Alterations in the 23 S rRNA Peptidyl Transferase Loop," <u>Journal Mol. Biol.</u> Vol. 232, pp. 725-731
	C20	Douthwaite, (1992) "Functional Interactions within 23S rRNA Involving the Peptidyltransferase Center," <u>Journal of Bacteriology</u> Vol. 174, No. 4, pp. 1333-1338
	C21	Fitzhugh, A., <i>et al.</i> , (1998) "Antibiotic Inhibitors of the Peptidyl Transferase Center. 1. Clindamycin as a Composite Analogue of the Transfer RNA Fragments L-Pro-Met and the D-Ribosyl Ring of Adenosine," <u>Bioorganic and Medicinal Chemistry Letters</u> , Vol. 8, pp. 87-92
	C22	Gabashvili, I., <i>et al.</i> , (2000) "Solution Structure of the <i>E. coli</i> 70S Ribosome at 11.5 Å Resolution," <u>Cell</u> , Vol. 100, pp. 537-549
	C23	Garrett, R., <i>et al.</i> , (1996) "The Peptidyl Transferase Center," <u>Ribosomal RNA</u> pp. 327-355
	C24	Garza-Ramos, G., <i>et al.</i> , (2001) "Binding Site of Macrolide Antibiotics on the Ribosome: New Resistance Mutation Identifies a Specific Interaction of Ketolides with rRNA," <u>Journal of Bacteriology</u> , Vol. 183, No. 23, pp. 6898-6907
	C25	Gonzales, R., <i>et al.</i> , (2001) "Infections Due to Vancomycin-Resistant <i>Enterococcus faecium</i> Resistant to linezolid," <u>The Lancet</u> Vol. 357, p. 1179
✓	C26	Green, R., <i>et al.</i> , (1997) "Ribosomes and Translation," <u>Annu. Rev. Biochemistry</u> Vol. 66, pp. 679-716

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OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)			
EXAM. INIT.			
	C27	Gregory, S., <i>et al.</i> , (1999) "Erythromycin Resistance Mutations in Ribosomal Proteins L22 and L4 Perturb the Higher Order Structure of 23 S Ribosomal RNA," <i>J. Mol. Biol.</i> Vol. 289, pp. 827-834	
	C28	Gschwend, D. <i>et al.</i> , (1996) "Molecular Docking Towards Drug Discovery," <i>Journal of Molecular Recognition</i> , Vol. 9, pp. 175-186	
	C29	Guetell, R. (1996) "Comparative Sequence Analysis and the Structure of 16S and 23S rRNA," <i>Ribosomal RNA</i> pp. 111-128	
	C30	Hansen, H.A.S., <i>et al.</i> , (1990) "Crystals of Complexes Mimicking Protein Biosynthesis are Suitable for Crystallographic Studies," <i>Biochimica et Biophysica Acta</i> , Vol. 1050, pp. 1-7	
	C31	Harms, J., <i>et al.</i> , (2001) "High Resolution Structure of the Large Ribosomal Subunit from a Mesophilic Eubacterium," <i>Cell</i> , Vol. 107, pp. 679-688	
	C32	Harms, J., <i>et al.</i> , (1999) "Elucidating the Medium-Resolution Structure of Ribosomal Particles: an Interplay between Electron Cryo-Microscopy and X-ray Crystallography," <i>Structure</i> Vol. 7, No. 8, pp. 931-941	
	C33	Hansen, L., <i>et al.</i> , (1999) "The Macrolide-Ketolide Antibiotic Binding Site is Formed by Structures in Domains II and V of 23S Ribosomal RNA," <i>Molecular Microbiology</i> , Vol. 31, No. 2, pp. 623-631	
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	C35	Lázaro, E., <i>et al.</i> , (1996) "A Sparsomycin-Resistant Mutant of <i>Halobacterium salinarum</i> Lacks a Modification at Nucleotide U2603 in the Peptidyl Transferase Centre of 23 S rRNA," <i>J. Mol. Biol.</i> Vol. 261, No. 2, pp. 231-238	
	C36	Lázaro, E., <i>et al.</i> , (1991) "Chemical, Biochemical and Genetic Endeavors Characterizing the Interaction of Sparsomycin with the Ribosome," <i>Biochimie</i> Vol. 73, pp. 1137-1143	
	C37	Lipinski, C., <i>et al.</i> , (1997) "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings," <i>Adv. Drug Delivery Rev.</i> Vol. 23, No. 3-25	
	C38	Maskowski <i>et al.</i> , (1987) "Single Crystals of Large Ribosomal Particles from <i>Halobacterium marismortui</i> Diffract to 6 Å," <i>Journal Molecular Biology</i> Vol. 193 pp. 818-822	
	C39	Matadeen, R., <i>et al.</i> , (1999) "The <i>Escherichia Coli</i> Large Ribosomal Subunit at 7.5 Å Resolution," <i>Structure</i> , Vol. 7, No. 12, pp. 1575-1583	
	C40	Moazed <i>et al.</i> , (1989) "Interaction of +rRNA with 23S rRNA in the Ribosomal A, P, and E Sites," <i>Cell</i> Vol. 57, pp. 585-597	
	C41	Moazed, D., <i>et al.</i> , (1987) "Chloramphenicol, Erythromycin, Carbomycin and Vernamycin B Protect Overlapping Sites in the Peptidyl Transferase Region of 23S Ribosomal RNA," <i>Biochimie</i> Vol. 69, pp. 879-884	

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OTHER ART, JOURNAL ARTICLES, ETC.

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OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

C501	C42	Moore, P.B. (1999) "Structural Motifs in RNA," <u>Annu. Rev. Biochemistry</u> Vol. 67, pp. 287-300
	C43	Moore, P.B. (1998) "The Three-Dimensional Structure of the Ribosome and its Components," <u>Annu. Rev. Biophys.</u> Vol. 27, pp. 35-58
	C44	Mueller, F., <i>et al.</i> , (2000) "The 3D Arrangement of the 23 S and 5 S rRNA in the <i>Escherichia coli</i> 50 S Ribosomal Subunit Based on a Cryo-Electron Microscopic Reconstruction at 7.5 Å Resolution," <u>J. Mol. Biol.</u> Vol. 298, pp. 35-59
	C45	Mussig, J., <i>et al.</i> , (1989) "Crystals of Wild-type, Mutated, Derivatized and Complexed 50 S Ribosomal Subunits from <i>Bacillus stearothermophilus</i> Suitable for X-ray Analysis," <u>J. Mol. Biol.</u> Vol. 205, pp. 619-621
	C46	Nakatogawa, H., <i>et al.</i> , (2002) "The Ribosomal Exit Tunnel Functions as a Discriminating Gate," <u>Cell</u> Vol. 108, pp. 629-636
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	C48	Nissen, P., <i>et al.</i> , (2000) "The Structural Basis of Ribosome Activity in Peptide Bond Synthesis," <u>Science</u> Vol. 289, pp. 920-930
	C49	Nitta, I., <i>et al.</i> , (1998) "Reconstitution of Peptide Bond Formation with <i>Escherichia coli</i> 23S Ribosomal RNA Domains," <u>Science</u> Vol. 281, pp. 666-669
	C50	Noller, H., (1991) "Ribosomal RNA and Translation," <u>Ann. Rev. Biochemistry</u> Vol. 60, pp. 191-227
	C51	Ogle, J., <i>et al.</i> , (2001) "Recognition of Cognate Transfer RNA by the 30S Ribosomal Subunit," <u>Science</u> Vol. 292, pp. 897-902
	C52	Pestka, S., (1974) "Antibiotics as Probes of Ribosome Structure: Binding of Chloramphenicol and Erythromycin to Polyribosomes; Effect of Other Antibiotics," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 5, No. 3, pp. 255-267
	C53	Porse, B., <i>et al.</i> , (1999) "Ribosomal Mechanics, Antibiotics, and GTP Hydrolysis," <u>Cell</u> Vol. 97, pp. 423-426
	C54	Porse, B., <i>et al.</i> , (1999) "Sites of Interaction of Streptogramin A and B Antibiotics in the Peptidyl Transferase Loop of 23 S rRNA and the Synergism of Their Inhibitory Mechanisms," <u>J. Mol. Biol.</u> Vol. 286, No. 2, pp. 375-387
	C55	Ramakrishnan, V., (2002) "Ribosome Structure and the Mechanism of Translation," <u>Cell</u> Vol. 108, pp. 557-572
✓	C56	Ramakrishnan, V., <i>et al.</i> , (1995) "Structures of Prokaryotic Ribosomal Proteins: Implications for RNA Binding and Evolution," <u>Biochem. Cell Biol.</u> Vol. 73, pp. 979-986



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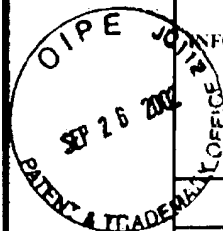
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C57	Rodriguez-Fonseca, C., <i>et al.</i> , (1995) "Fine Structure of the Peptidyl Transferase Centre on 23 S-like rRNAs Deduced from Chemical Probing of Antibiotic-Ribosome Complexes," <u>J. Mol. Biol.</u> Vol. 247, pp. 224-235
C58	Schlünzen, F., <i>et al.</i> , (2001) "Structural Basis for the Interaction of Antibiotics with the Peptidyl Transferase Centre in Eubacteria," <u>Nature</u> Vol. 413, pp. 814-821
C59	Schlünzen, F., <i>et al.</i> , (2000) "Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Å Resolution," <u>Cell</u> Vol. 102, pp. 615-623
C60	Schlünzen, F., <i>et al.</i> , (1995) "A Milestone in Ribosomal Crystallography: The Construction of Preliminary Electron Density Maps at Intermediate Resolution," <u>Biochemistry Cell Biology</u> Vol. 73, pp. 739-749
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C62	Spahn, C.M.T., <i>et al.</i> , "Throwing a Spanner in the Works: Antibiotics and the Translation Apparatus," <u>Journal of Molecular Medicine</u> , Vol. 74, No. 8, pp. 423-439
C63	Swaney, S., <i>et al.</i> , (1998) "The Oxazolidinone Linezolid Inhibits Initiation of Protein Synthesis in Bacteria," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 42, No. 12, pp. 3251-3255
C64	Tenson, T., <i>et al.</i> , (2002) "Regulatory Nascent Peptides in the Ribosomal Tunnel," <u>Cell</u> Vol. 108, pp. 591-594
C65	Timmermans, P., <i>et al.</i> , (1982) "Sparsophenicol: A New Synthetic Hybrid Antibiotic Inhibiting Ribosomal Peptide Synthesis" <u>J. Med. Chem.</u> Vol. 25, pp. 1123-1125
C66	Tocij, A., <i>et al.</i> , (1999) "The Small Ribosomal Subunit from <i>Thermus Thermophilus</i> at 4.5 Å Resolution: Pattern Fittings and the Identification of a Functional Site," <u>Proc. Natl. Acad. Sci. USA</u> Vol. 96, pp. 14252-14257
C67	Trakhanov, S.D., <i>et al.</i> , (1987) "Crystallization of 70 S Ribosomes and 30 S Ribosomal Subunits from <i>Thermus thermophilus</i> ," <u>Febs Letters</u> , Vol. 220, No. 2, pp. 319-322
C68	Tronrud, D., (1997) "TNT Refinement Package," <u>Macromolecular Crystallography, Part B, Methods in Enzymology</u> Vol. 277, pp. 306-319
C69	Tsiodras, S., <i>et al.</i> , (2001) "Linezolid Resistance in a Clinical Isolate of <i>Staphylococcus Aureus</i> ," <u>The Lancet</u> Vol. 358, pp. 207-208
C70	Vannuffel <i>et al.</i> , (1996) "Mechanism of Action of Streptogramins and Macrolides," <u>Drugs</u> Vol. 51, Suppl 1, pp. 20-30
C71	Vannuffel <i>et al.</i> , (1992) "Identification of a Single Base Change in Ribosomal RNA Leading to Erythromycin Resistance," <u>J. Biol. Chem.</u> Vol. 267(12), pp. 8377-8382



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INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
C72	Vester <i>et al.</i> , (2001) "Macrolide Resistance Conferred by Base Substitutions." <u>Antimicrobial Agents and Chemotherapy</u> Vol. 45, No. 1, pp. 1-12		
C73	Vester <i>et al.</i> , (1988) "The Importance of Highly Conserved Nucleotides in the Binding Region of Chloramphenicol at the Peptidyl transfer Centre of <i>Escherichia coli</i> 23S Ribosomal RNA." <u>The EMBO Journal</u> Vol. 7, No. 11, pp. 3577-3587		
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